IN THE CLAIMS:

Claims 1-12 (Canceled)

1. (Original) A novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer), characterized in that it exhibits peaks at diffraction angles shown in the following Table 1, in its powder X ray diffraction pattern:

Table 1

Diffraction Angle 2θ (°)
approximately 11.7
approximately 16.1
approximately 18.6
approximately 21.2
approximately 22.3
approximately 24.4
approximately 26.2

2. (Original) The novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) according to Claim 1, obtained by crystallization in an acidic state of a solution containing 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) in a temperature range of -5°C to 5°C.

3. (Currently Amended) The novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) according to Claim 1 ~~or 2~~, wherein the solution containing 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) is an aqueous solution of an alkali metal salt of the compound.

4. (Currently Amended) The novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-

hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) according to ~~any of Claims~~ claim 1 ~~to 3~~, obtained by controlling pH of an aqueous sodium hydrogen carbonate solution of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) at from 1 to 3 while cooling the solution in a temperature range from -5°C to 5°C.

5. (Original) A method for preparing a novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer), comprising acidifying a solution containing 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) in a temperature range from -5°C to 5°C to cause formation of a crystal.

6. (Original) The method for preparing a novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) according to Claim 5, wherein the acidic state of the solution includes pH values of 1 to 3.

7. (Currently Amended) The method for preparing a novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) according to Claim 5 ~~or 6~~, wherein the solution containing 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) is an aqueous solution of an alkali metal salt of the compound.

8. (Currently Amended) The method for preparing a novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) according to ~~any of Claims~~ claim 5 ~~to 7~~, wherein the temperature of the solution under an acidic state is 0°C to 2°C.

9. (Currently Amended) A method for preparing an anhydrous form of a novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer), wherein a novel crystal obtained by the method according to ~~any of Claims~~ claim 5 ~~to 8~~ is further frozen at temperatures from -5°C to -80°C, and then subjected to vacuum drying.

10. (Original) The method for preparing an anhydrous form of a novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) according to Claim 9, wherein the conditions for vacuum drying include a degree of vacuum of 0.1 to 0.001 mmHg and a temperature of -20 to 35°C.

11. (New) The novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) according to Claim 2, wherein the solution containing 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) is an aqueous solution of an alkali metal salt of the compound.

12. (New) The novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) according to claim 2, obtained by controlling pH of an aqueous sodium hydrogen carbonate solution of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) at from 1 to 3 while cooling the solution in a temperature range from -5°C to 5°C.

13. (New) The novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) according to claim 3, obtained by controlling pH of an aqueous sodium hydrogen carbonate solution of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) at from 1 to 3 while cooling the solution in a temperature range from -5°C to 5°C.

14. (New) The method for preparing a novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) according to Claim 6, wherein the solution containing 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) is an aqueous solution of an alkali metal salt of the compound.

15. (New) The method for preparing a novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) according to claim 6, wherein the temperature of the solution under an acidic state is 0°C to 2°C.

16. (New) The method for preparing a novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer) according to claim 7, wherein the temperature of the solution under an acidic state is 0°C to 2°C.

17. (New) A method for preparing an anhydrous form of a novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer), wherein a novel crystal obtained by the method according to claim 6 is further frozen at temperatures from -5°C to -80°C, and then subjected to vacuum drying.

18. (New) A method for preparing an anhydrous form of a novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer), wherein a novel crystal obtained by the method according to claim 7 isfurther frozen at temperatures from -5°C to -80°C, and then subjected to vacuum drying.

19. (New) A method for preparing an anhydrous form of a novel crystal of 7-[2-(2-aminothiazol-4-yl)-2-hydroxyiminoacetamide]-3-vinyl-3-cephem-4-carboxylic acid (syn isomer), wherein a novel crystal obtained by the method according to claim 8 is further frozen at temperatures from -5°C to -80°C, and then subjected to vacuum drying.